

PHOTOGRAPHIC INTERPRETATION REPORT



MUNITIONS TEST ACTIVITY LENINGRAD ARTILLERY RESEARCH AND DEVELOPMENT RANGE USSR

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Munitions Test Activity, Leningrad Art Range	tillery Research and Deve	Lopment UR	
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ACIC. US Air Target Chart, Series 200 SAC. US Air Target Chart, Series 200			
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REQUIREMENT	NPIC PROJECT		
NA	250641		
	BSTRACT		
fragmentation munitions test cells we search and Development Range on phot of the test arrays indicate that the subcomponents for advanced fragmenta or grenades. These test arrays, whi arranged to form four concentric cir USSR at Krasnoarmeysk Solid Motor an 1968. Improved conventional munition this range between May 1966 and Augurevetted control buildings and a sect test areas. This report describes and gives cells, includes annotated photograph of their photographic coverage.	ography of August 1968. range is involved in testion munitions, probably ch consist of numerous parcles, had previously been d Munitions Development Forst esting of this type part 1968, during which time curity fence had been build the dimensions of the testing	The type and size ting and developing for artillery rounds nels usually observed in the acility in August robably began at e two partially t at one of the st arrays and test	
Analysis of Leningrad Artillery (Figure 1) on the east-northeast edg stallation could be involved in rese munitions (ICM). Two test arrays (FU.S. for static testing of controlle fragmentation test cells have been i Improved conventional munitions test the USSR at Krasnoarmeysk Solid Moto	ge of Leningrad indicates earch and testing of improligure 2), similar to arraid-fragmentation munitions dentified at the range in arrays of this type were	that this in- ved conventional ys used by the , and two circular August 1969. first observed in	
in August 1968.			2
In August 1969, the Leningrad R three test areas, a rangehead with a which appeared to be active), numero impact area with numerous craters (n and an associated munitions storage area, immediately south of the range tains a munitions loading facility, motor pool, storage buildings, and s	total of three firing libus control buildings and none of which appeared to area with 14 buildings. Thead, is served by two rashop buildings, maintenan	nes (only one of bunkers, a large be of recent origin), The range support il spurs and con-	
Installations in the vicinity of Loading and Storage Kr. Znamets Facility 1 Leningra Toksovo Propellant R&D Facil Plant Okhtenskiy	, Leningrad Sc ad Army Barracks Murino AI	olid Motor Test	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
DES	SCRIPTION		
Test Areas 1 and 2 are shown in fragmentation munitions test array p ventional munitions. Test Area 3 is fragmentation test cells.	probably used for testing	improved con-	

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Test Area l	(top o	f Figure	2)	Ì
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One of the controlled-fragmentation munitions test arrays is constructed in a revetted former small-arms firing range at the southeast corner of the rangehead. The test array consists of four concentric circles of probable fragment-collection panels or witness panels.

Test Area 2 (bottom of Figure 2)

The second controlled-fragmentation test array is in a fenced area approximately 5 nautical miles (nm) north of the rangehead, at a former artillery firing line. This array consists of at least three concentric circles of fragment-collection panels, but a fourth circle at the center has possibly been obliterated by testing.

This test area also contains two partially revetted control buildings, one support building, five possible instrumentation and observation points, one overhead crane (which is a remnant of the former artillery firing line), and several circular ground scars that are probably sites of previously used test arrays.

Test Area 3 (Figure 3)

Two test cells of the type commonly used to test standard fragmentation munitions at most munitions test areas in the USSR are located approximately 6 nm north of the rangehead. Each cell consists of numerous panels joined to form a circle

CHRONOLOGY

When Leningrad Artillery Research and Development Range was covered in May 1966 on small-scale photography of good interpretability, no evidence of fragmentation testing was observed. The control buildings later observed at Test Area 2 were not present.

The first indication that the range might be involved in the testing of improved conventional munitions was observed in August 1968 at Test Area 2. The fence which separates this test area from the range was present and the revetment and two control buildings were observed for the first time.

Not until January 1969 was the first clear, large-scale photography covering all three test areas available. At Test Area 1, no activity could be related to controlled-fragmentation testing. In Test Area 2, the five possible instrumentation and observation points were observed, and trenching was apparent from the partially revetted control building to the testing area. In Test Area 3, the fragmentation test cells were also observed.

Photography of April 1969 covered the three test areas, but Test Areal was hazy and uninterpretable. Test Area 2 was also hazy, but the buildings and trenching were visible and no test arrays were observed. Near the two test cells in Test Area 3, several panels were lying flat and leaving small gaps in the test cells. Two rows of additional panels were observed near the cells. One row of six closely spaced panels was immediately north of a test cell; the second row was made up of seven panels parallel to the first row and approximately 119 meters (390.4 feet) to the east.

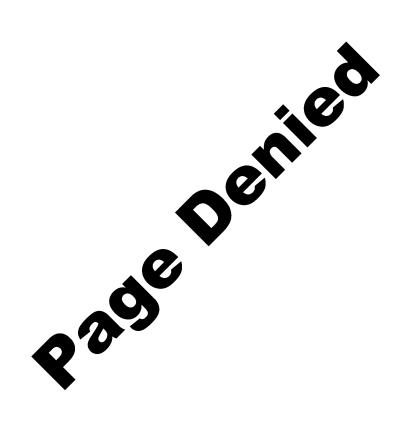
The only time controlled-fragmentation test arrays were observed in Test Areas 1 and 2 was on photography of August 1969, the most complete high-resolution coverage of the range.

In November 1969, only Test Area 1 was covered and the controlled-fragmentation test array did not appear to be present. The three test areas were also covered on the most recent photography (December 1969), but only the two test cells in Test Area 3 can be identified because of the snow cover and the small scale of the photography.

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REFERENCES	25X1
MAPS OR CHARTS	
ACIC. US Air Target Chart, Series 200, Sheet 0103-25, scale 1:200,00 SAC. US Air Target Chart, Series 200, Sheet 0153-4, scale 1:200,00	
DOCUMENTS	
1. NPIC. Munitions Test Activity, Krasnoarmeysk, USSR, Nov 68 (TOP SECRET RUFF)	25X1
REQUIREMENT	
NPIC Project 250641	
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